

(19) 世界知的所有権機関  
国際事務局



(43) 国際公開日  
2001 年 6 月 28 日 (28.06.2001)

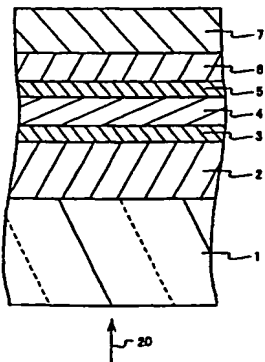
PCT

(10) 国際公開番号  
WO 01/46950 A1

- (51) 国際特許分類<sup>7</sup>: G11B 7/24, 7/004, B41M 5/26 (74) 代理人: 池内寛幸, 外(IKEUCHI, Hiroyuki et al.); 〒530-0047 大阪府大阪市北区西天満4丁目3番25号 梅田プラザビル401号室 Osaka (JP).
- (21) 国際出願番号: PCT/JP00/09007
- (22) 国際出願日: 2000 年 12 月 19 日 (19.12.2000) (81) 指定国 (国内): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (25) 国際出願の言語: 日本語
- (26) 国際公開の言語: 日本語
- (30) 優先権データ:  
特願平 11/362948  
1999 年 12 月 21 日 (21.12.1999) JP (84) 指定国 (広域): ARIPO 特許 (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), ユーラシア特許 (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), ヨーロッパ特許 (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI 特許 (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- (71) 出願人 (米国を除く全ての指定国について): 松下電器産業株式会社 (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.) [JP/JP]; 〒571-8501 大阪府門真市大字門真1006番地 Osaka (JP).
- (72) 発明者; および
- (75) 発明者/出願人 (米国についてのみ): 宇野真由美 (UNO, Mayumi) [JP/JP]; 〒598-0093 大阪府泉南郡田尻町りんくうポート北5番17-3-016 Osaka (JP). 山田昇 (YAMADA, Noboru) [JP/JP]; 〒573-1104 大阪府枚方市楠葉丘1-4-2 Osaka (JP).
- 添付公開書類:  
— 国際調査報告書
- 2 文字コード及び他の略語については、定期発行される各 PCT ガゼットの巻頭に掲載されている「コードと略語のガイダンスノート」を参照。

(54) Title: OPTICAL INFORMATION RECORDING MEDIUM, METHOD OF RECORDING AND REPRODUCING, AND OPTICAL RECORDING AND REPRODUCING SYSTEM

(54) 発明の名称: 光学情報記録媒体とその記録再生方法、およびこれを用いた光学情報の記録再生システム



(57) Abstract: At least one information layer including a recording layer with a base material that has two alternative optical states variable with exposure to a laser beam is formed on a substrate. The energy gap of this material is 0.9 to 2.0 eV in amorphous state. The transmissivity of the information layer is greater than 30% when irradiated with a laser beam whose wavelength falls within a range of 300 to 450 nm. The irradiation of one side of this medium with a laser beam within such a wavelength range allows information to be recorded on a plurality of record layers or reproduced from them.

## ABSTRACT

At least one information layer including a recording layer contains a material that can exhibit a transition between two optically different states in response to irradiation with a laser beam as a main component is provided on a substrate, and the material is configured so as to exhibit an energy gap ranging from 0.9 eV to 2.0 eV in the amorphous state. The information layer is configured to have a light transmittance of not less than 30 % when irradiated with a laser beam having a wavelength ranging from 300 nm to 450 nm. It is possible to achieve excellent recording/reproduction, even if a plurality of recording layers are provided in the recording medium, when this medium is irradiated with a laser beam with a wavelength in the foregoing range from one side of the medium.

00913430-087407